






**PROCESS FOR THE STEREOSELECTIVE SYNTHESIS OF 3-SUBSTITUTED 2-SULPHONYL METHYL PROPIONIC ACIDS AND INTERMEDIATE PRODUCTS****Publication number:** WO9407850**Publication date:** 1994-04-14**Inventor:** BECK GERHARD (DE); JENDRALLA JOACHIM-HEINER (DE); KAMMERMEIER BERNHARD (DE)**Applicant:** HOECHST AG (DE); BECK GERHARD (DE); JENDRALLA JOACHIM HEINER (DE); KAMMERMEIER BERNHARD (DE)**Classification:****- international:** C07B53/00; C07C315/00; C07C315/02; C07C315/04; C07C317/44; C07C319/14; C07C323/51; C07C323/52; C07C323/56; C07B53/00; C07C315/00; C07C317/00; C07C319/00; C07C323/00; (IPC1-7): C07C315/00; C07C317/44; C07C323/52; C07C323/56**- european:** C07C315/02; C07C315/04; C07C317/44; C07C323/52; C07C323/56**Application number:** WO1993EP02674 19930930**Priority number(s):** DE19924233100 19921001**Also published as:** EP0662952 (A1)  
 US5684185 (A1)  
 EP0662952 (A0)  
 DE4233100 (A1)  
 EP0662952 (B1)**Cited documents:** WO9203132  
 US4758584  
 EP0309766**Report a data error here****Abstract of WO9407850**

Compounds of formula (I) can be produced in a multi-day process from the compounds of formulae (II): R1-SH and (III), in which the constituents R1, R2 and R3 have the meaning given.

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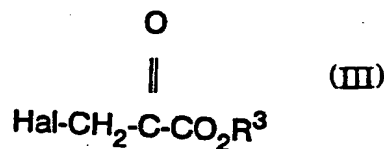
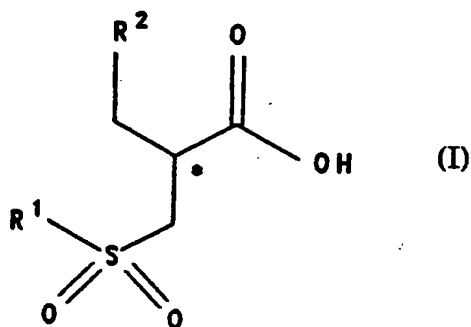


**PCT**  
WELTORGANISATION FÜR GEISTIGES EIGENTUM  
Internationales Büro  
INTERNATIONALE ANMELDUNG VERÖFFENTLICHT NACH DEM VERTRAG ÜBER DIE  
INTERNATIONALE ZUSAMMENARBEIT AUF DEM GEBIET DES PATENTWESENS (PCT)

<p>(51) Internationale Patentklassifikation <sup>5</sup> : C07C 315/00, 317/44, 323/52 C07C 323/56</p>	<p>A1</p>	<p>(11) Internationale Veröffentlichungsnummer: WO 94/07850 (43) Internationales Veröffentlichungsdatum: 14. April 1994 (14.04.94)</p>
<p>(21) Internationales Aktenzeichen: PCT/EP93/02674 (22) Internationales Anmeldedatum: 30. September 1993 (30.09.93) (30) Prioritätsdaten: P 42 33 100.5 1. Oktober 1992 (01.10.92) DE (71) Anmelder (für alle Bestimmungsstaaten ausser US): HOECHST AKTIENGESELLSCHAFT [DE/DE]; Brüningstrasse 50, D-65929 Frankfurt am Main (DE). (72) Erfinder; und (75) Erfinder/Anmelder (nur für US) : BECK, Gerhard [DE/DE]; Gustav-Freytag-Strasse 24, D-60320 Frankfurt am Main (DE). JENDRALLA, Joachim-Heiner [DE/DE]; Pfortengartenweg 38, D-65931 Frankfurt am Main (DE). KAMMERMEIER, Bernhard [DE/DE]; Geisenheimer Strasse 96, D-60529 Frankfurt am Main (DE).</p>		<p>(81) Bestimmungsstaaten: AU, CA, HU, JP, KR, US, europäisches Patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  Veröffentlicht Mit internationalem Recherchenbericht.</p>

(54) Title: PROCESS FOR THE STEREOSELECTIVE SYNTHESIS OF 3-SUBSTITUTED 2-SULPHONYL METHYL PROPIONIC ACIDS AND INTERMEDIATE PRODUCTS

(54) Bezeichnung: VERFAHREN ZUR STEREOSELEKTIVEN SYNTHESE VON 3-SUBSTITUIERTEN 2-SULFONYL-METHYLPROPIONSÄUREN SOWIE ZWISCHENPRODUKTE



(57) Abstract

Compounds of formula (I) can be produced in a multi-day process from the compounds of formulae (II): R<sup>1</sup>-SH and (III), in which the constituents R<sup>1</sup>, R<sup>2</sup> and R<sup>3</sup> have the meaning given.






(57) Zusammenfassung

Verbindungen der Formel (I) lassen sich in einem mehrtägigen Verfahren herstellen, ausgehend von den Verbindungen der Formeln (II): R<sup>1</sup>-SH und (III), wobei die Substituenten R<sup>1</sup>, R<sup>2</sup> und R<sup>3</sup> die oben angegebene Bedeutung haben.

## A process for preparing 2-alkyl-3-aminothiophene derivative and 3-aminothiophene derivative






**Publication number:** EP1036793  
**Publication date:** 2000-09-20  
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**Classification:**  
- **international:** C07D333/36; C07D333/38; C07D409/12; C07D411/12; C07D417/12; C07D333/00; C07D409/00; C07D411/00; C07D417/00; (IPC1-7): C07D333/36; C07D333/38; C07D401/12; C07D403/12; C07D409/12; C07D417/12  
- **european:** C07D333/36; C07D333/38; C07D409/12; C07D411/12; C07D417/12  
**Application number:** EP20000105331 20000316  
**Priority number(s):** JP19990069387 19990316

### Also published as:

 US6239282 (B1)  
 EP1036793 (A3)  
 CN1495180 (A)  
 EP1036793 (B1)  
 ES2247968T (T3)

more >>

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 EP0737682  
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 XP002140400  
 XP000915755  
 XP000941748  
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### Abstract of EP1036793

A compound represented by the formula (1) which is useful as an agricultural fungicide or an intermediate thereof can be obtained by reacting a compound of the general formula (2) with a compound of the general formula (3) in the presence of an acid and reducing the resulted reaction mixture. <CHEM> wherein, each of R<1> to R<4> and R<1a> to R<4a> independently represents a hydrogen atom or an alkyl group, and R represents an alkyl group, alkoxy group, phenyl group or 5-membered or 6-membered heterocyclic group.

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(19)



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(11)

EP 1 036 793 A2

(12)

## EUROPEAN PATENT APPLICATION

(43) Date of publication:  
20.09.2000 Bulletin 2000/38

(51) Int. Cl.<sup>7</sup>: C07D 333/36, C07D 401/12,  
C07D 403/12, C07D 409/12,  
C07D 417/12, C07D 333/38

(21) Application number: 00105331.3

(22) Date of filing: 16.03.2000

(84) Designated Contracting States:  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE  
Designated Extension States:  
AL LT LV MK RO SI

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(30) Priority: 16.03.1999 JP 6938799

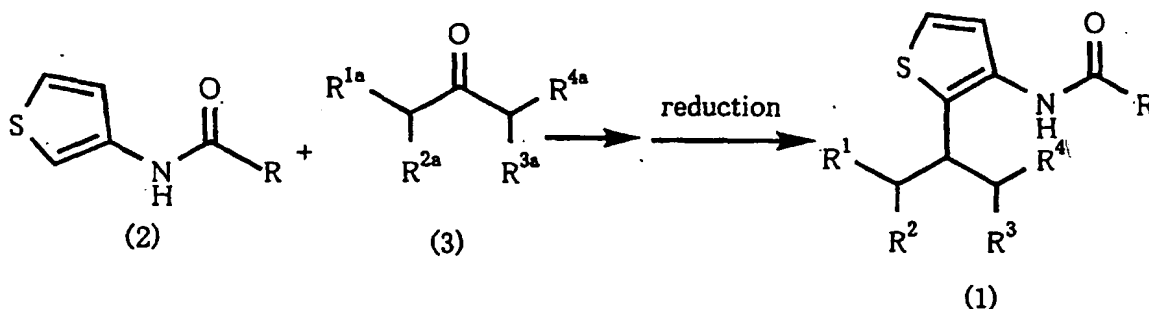
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(54) A process for preparing 2-alkyl-3-aminothiophene derivative and 3-aminothiophene derivative

(57) A compound represented by the formula (1) which is useful as an agricultural fungicide or an intermediate thereof can be obtained by reacting a compound of the general formula (2) with a compound of the general formula (3) in the presence of an acid and reducing the resulted reaction mixture.



wherein, each of R<sup>1</sup> to R<sup>4</sup> and R<sup>1a</sup> to R<sup>4a</sup> independently represents a hydrogen atom or an alkyl group, and R represents an alkyl group, alkoxy group, phenyl group or 5-membered or 6-membered heterocyclic group.